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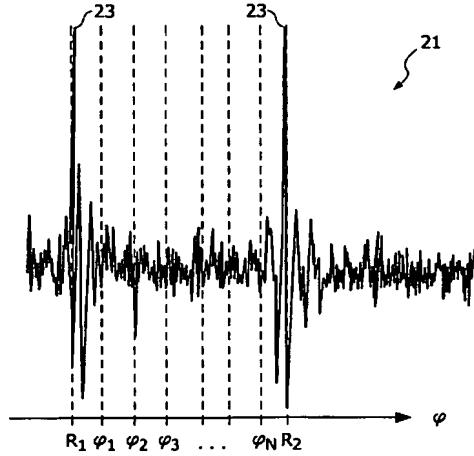
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(54) Title: COMPUTER TOMOGRAPHY METHOD FOR OBJECTS MOVING PERIODICALLY



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(57) Abstract: The invention relates to a computer tomography method in which a bundle of rays passes through an object that is moving periodically, in particular a heart. During the acquisition of measured values, a movement signal dependent on the movement of the object is sensed. From this movement signal are determined periodically repeated phases of movement, after which a plurality of intermediate images of a region of the object are reconstructed, in particular at a low resolution, using measured values whose times of acquisition were situated in different phases of movement, thus enabling each intermediate image to be assigned to a phase of movement. The phase of movement in which the object moved least in the region is then identified by determining the intermediate image having the fewest motion artifacts. Finally, a computer tomographic image of the region is reconstructed, in particular with a high spatial resolution, from measured values whose times of acquisition were situated in the phase of movement in which there was the least movement by the object in said region.



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